

26 January 1965

MEMORANDUM FOR THE RECORD

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SUBJECT: Trip Report to [ ] (25 January 1965)

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1. On 25 January I visited [ ] to discuss the procurement of a Ronchi-type ruling for use on project 99029-5, "Production of Crossed Phase Gratings." These gratings will be used in the direct image viewer, project 99709-4. I talked with [ ] in charge of the Industrial Division, [ ] President, and [ ] Vice President. I was given a complete tour of the facilities, including the production lines.

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2. [ ] founded in 1907, is a company whose raison d'être is etching. They etch metals and non-metals for optical and electronic components. They do commercial illustration and lithography. They are well equipped in both production and testing and apparently are well organized, with a visible pride in the company and its products.

3. The company had submitted the lowest bid for the production of these Ronchi rulings. It was felt that we could purchase these off-the-shelf rather than through contract, and the visit was made to ascertain the feasibility of such procurement. With some exceptions, they feel that the specifications can be met. It will not be possible to produce rulings of exactly 700 cycles/inch as requested without additional expense. Those rulings which can be made are at line frequencies of 666 and 750 cycles/inch. Upon return from the trip, I have ascertained that the 666 line ruling would be technically acceptable. The quoted price for one ruling was [ ]. In the discussion of the line width requirement to which I had attached no tolerance, it was stated that a price increase would be necessary to hold this line width to within  $\pm 10\%$ . The increase brings the total cost of one grating to [ ]. In view of the difficulty in maintaining the tolerance, I feel this price to be entirely justified and marvel that it is not higher.

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4. I intend to order one ruling and four photographic copies, two of these "negative," the other two "positive." This will bring the total cost to approximately [ ]. The other bidder, [ ] quoted a [ ] figure for one grating only, and took exception to almost all of the specifications. I believe that the [ ] quotation is sound and should be accepted.

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[ ]  
Chief, Exploratory Development Laboratory Branch  
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